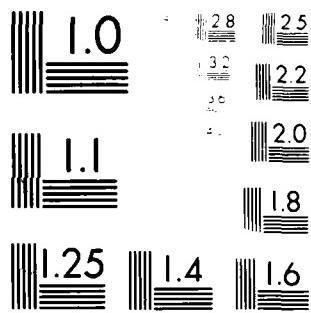


AD-A144 843 19320A MLRS MISSILE NUMBER V6134 V6135 V6136 V6137
V6162 V6166 ROUND NUMB..(U) ARMY ELECTRONICS RESEARCH
AND DEVELOPMENT COMMAND WSMR NM ATM.. D C KELLER
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METEOROLOGICAL DATA REPORT

19320A MLRS

Missile Number V6134, V6135, V6136, V6137, V6162, V6166

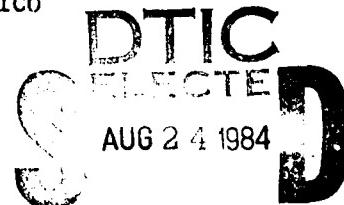
Round Number V597/AT2-59 THRU V602/AT2-64

19 June 1984

by

DONALD C. KELLER
Program Support Coordinator
Phone Number (505) 679-9568
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO



E COM

UNITED STATES ARMY ELECTRONICS COMMAND

84 08 20 173

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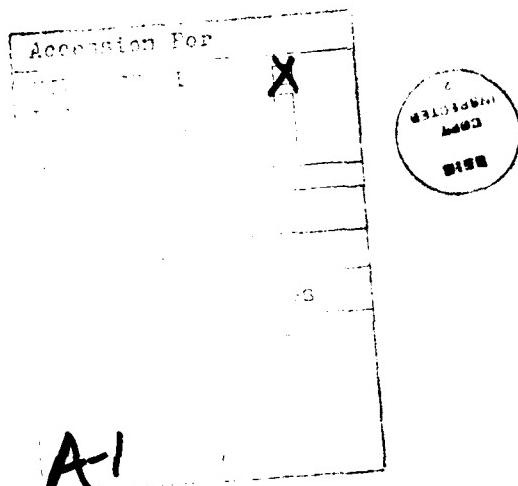
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INTRODUCTION

19320A MLRS, Missile Numbers V6134, V6135, V6136, V6137, V6162 and V6166, Round Numbers V597/AT2-59 Thru V602/AT2-64, were launched from LC-33, White Sands Missile Range (WSMR). New Mexico, at 0957:51, 0957:56, 0958:00, 0958:05, 0958:10 and 0958:15 MDT, 19 Jun 84. The scheduled launch times were 0955 MDT with a 4.5 second separation.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE

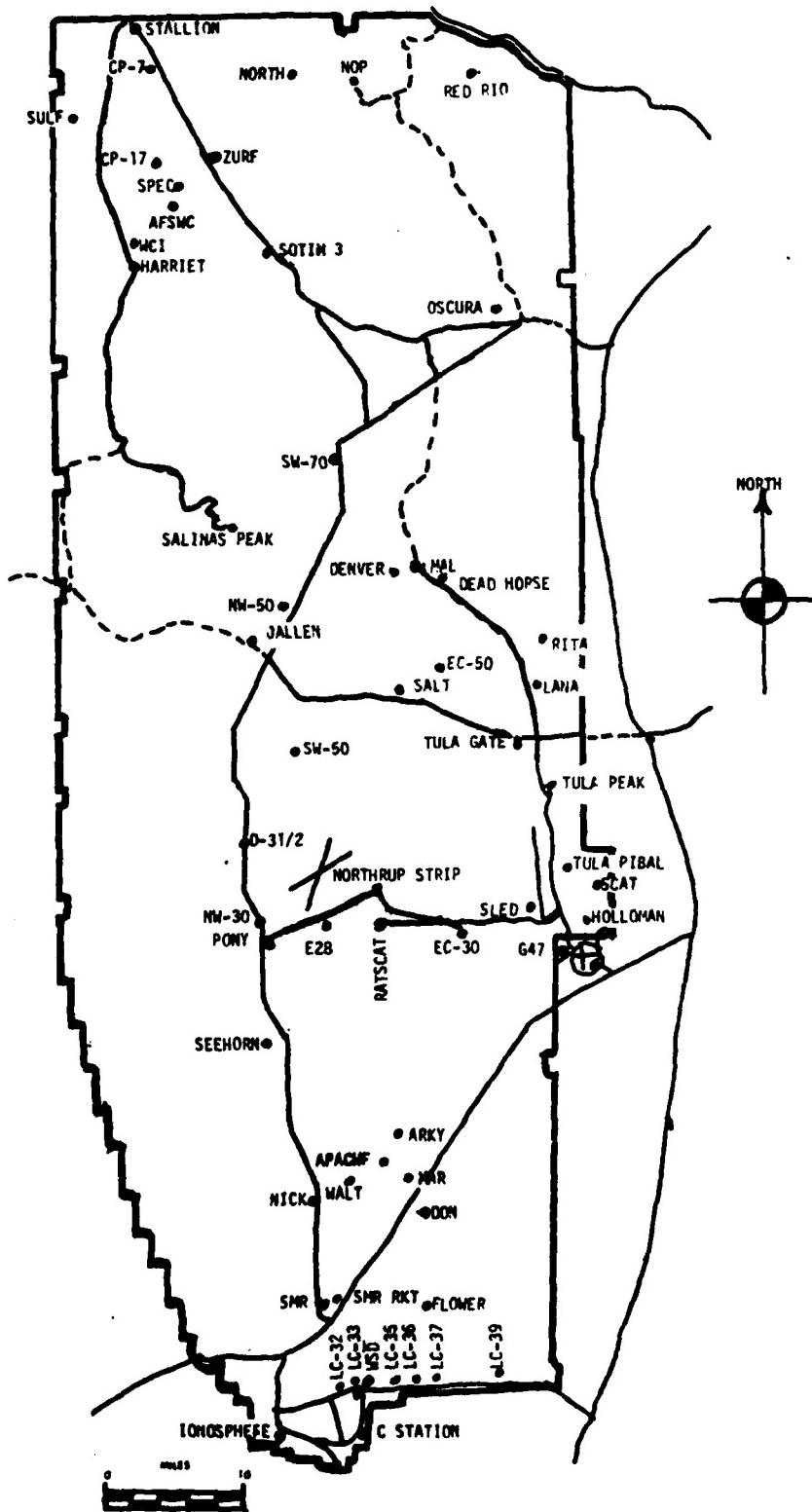
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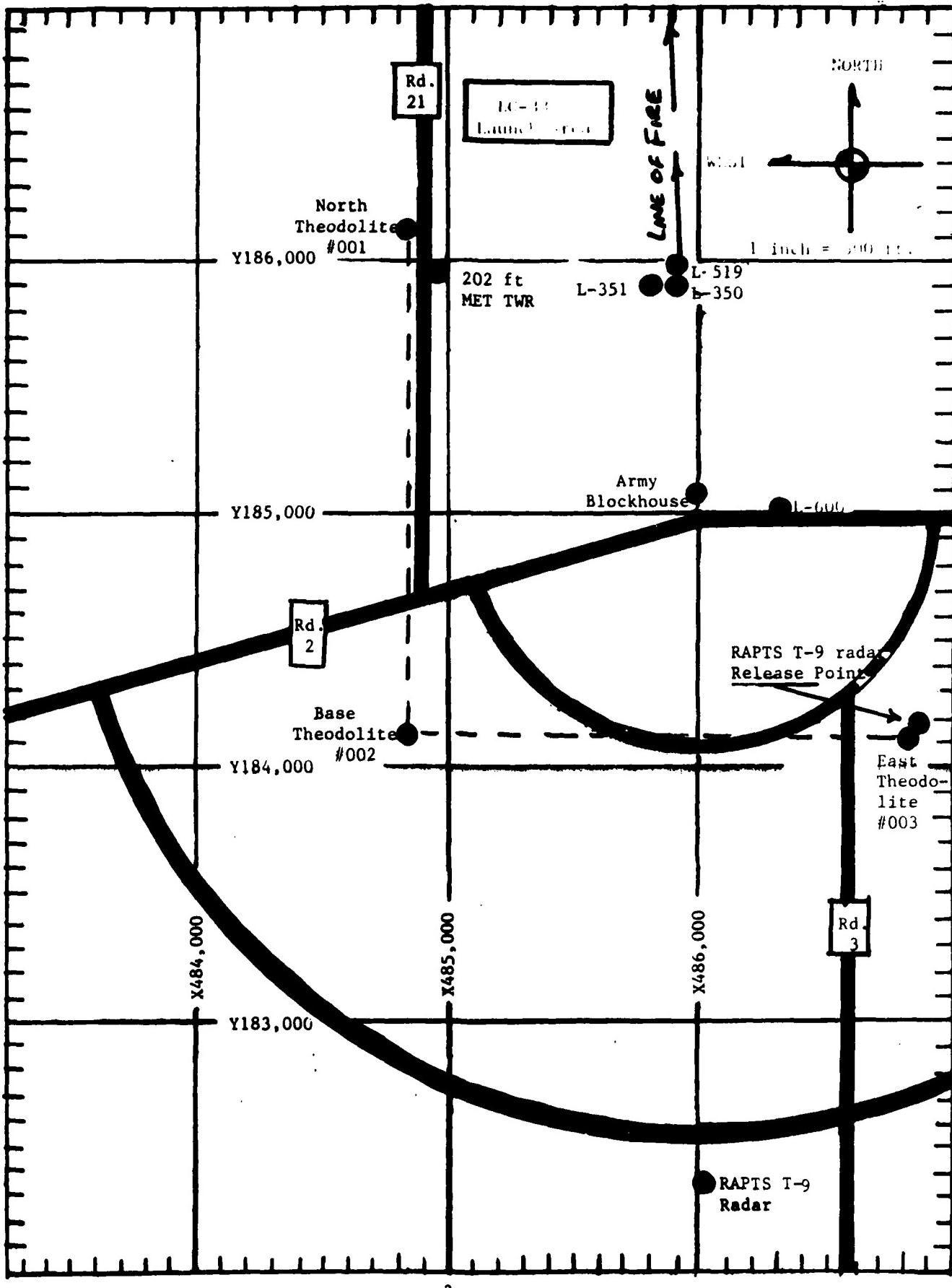
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

WSD	0650	MDT
SMR	0650	MDT
WSD	0825	MDT
SMR	0825	MDT
WSD	0910	MDT
SMR	0910	MDT
WSD	0958	MDT
SMR	0958	MDT

WSMR METEOROLOGICAL SITES





לישׁוּאַבְנָהָרִים

TABLE I

STATION I.C.-33

DATE 19 84

$$Y = 484,982.64 \quad Y = 185,957.73 \quad H = 3995.00$$

$$Y = 484,982.64 \quad Y = 185,957.73 \quad H = 3995.00$$

$$Y = 484,982.64 \quad Y = 185,957.73 \quad H = 3995.00$$

PSYCHOPEDAGOGICAL CONSEQUENCES

TIME: MDT	0958		
DRY BULB TEMP.	20.2		
WET BULB TEMP.	17.6		
WET BULB DEPR.	2.6		
Dew Point	16.4		
RELATIVE HUMID.	80		

**LC-33 METEOROLOGICAL TOWER
ANEMOMETER MEASURED WIND DATA**

WSTM COORDINATES X=484,982.64 Y=185,957.73 H=3983.00 (BASE)

TABLE NO. 2

DATE 19 Jun 84 0958 M D T
DAY MONTH YEAR TIME

LEVEL #1 12 FT AGL			LEVEL #2 62 FT AGL		
T-TIME (SEC)	DIR(DEG)	SPEED (KTS)	T-TIME (SEC)	DIR(DEG)	SPEED (KTS)
T-30	MISG	MISG	T-30	MISG	MISG
T-20	295	03	T-20	MISG	03
T-10	009	03	T-10	MISG	04
T- 0 (1st T)	354	02	T- 0 (1st T)	MISG	04
T+10	006	04	T+10	MISG	04
T+20	007	03	T+20	MISG	03
T+30	015	03	T+30	MISG	04
T+40	016	03	T+40	MISG	02
T+50	015	02	T+50	MISG	02
T+60		CALM	T+60	MISG	02

LEVEL #3 102 FT AGL			LEVEL #4 202 FT AGL		
T-TIME (SEC)	DIR(DEG)	SPEED (KTS)	T-TIME (SEC)	DIR(DEG)	SPEED (KTS)
T-30	MISG	MISG	T-30	MISG	MISG
T-20	015	05	T-20	023	04
T-10	019	04	T-10	018	03
T- 0 (1st T)	017	03	T- 0 (1st T)	012	03
T+10	015	04	T+10	012	03
T+20	013	04	T+20	011	03
T+30	013	03	T+30	010	03
T+40	013	02	T+40	007	03
T+50	013	02	T+50	006	04
T+60	013	03	T+60	005	03

TABLE 3

AIMING AND T-TIME COMPUTER MET MESSAGE DATA

19 June 1984

WSD 0650 MDT	SMR 0650 MDT	WSD 0825 MDT	SMR 0825 MDT
METCM1324064	METCM1325064	METCM1324064	METCM1325064
191280122881	191280122881	191440122882	191440122881
00480003 29230881	00391006 29210881	00080002 29400882	00036006 29460881
01379005 29210871	01428009 29220871	01002002 29340872	01063005 29260871
02237009 29020845	02323009 29180846	02077005 29100847	02114004 29100846
03192016 28810806	03224013 29010807	03178010 28840808	03163005 28810807
04138015 28590760	04149014 28640761	04202009 28550761	04194008 28540761
05102016 28310716	05119017 28390716	05164009 28270717	05115014 28250716
06080004 28040674	06099013 28130675	06110012 28040675	06127016 27960674

WSD 0910 MDT	SMR 0910 MDT	WSD 0958 MDT	SM 0958 MDT
METCM1324064	METCM1325064	METCM1324064	METCM1325064
191520122882	191520122882	191600122882	191600122882
00000000 29470882	00587006 29440882	00000000 29550882	00000000 29670882
01617005 29310872	01028006 29340872	01631002 29340872	01631002 29490872
02635004 29090847	02603004 29150847	02020004 29200847	02011004 29200847
03151009 28830808	03208005 28910808	03147008 28860808	03161006 28910808
04210009 28540761	04215009 28610761	04163008 28610761	04202006 28580761
05161009 28250717	05128013 28290717	05170006 28380717	05124016 28330717
06126013 28040675	06140015 28030675	06167009 28040675	06151012 28120675

STATION ALTITUDE 3959.0 FEET *SL
19 JUNE 54 0650 MDT
ASCENSION NO. 335

SIGNIFICANT LEVEL DATA

1710020355
WHITF SANDS

TABLE 4

GEODETIC COORDINATES
32°40'45" LAT DEG
126°37'33" LON DEG

PRESSURE GLOMERIC MILLIBARS	ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT
980.3	9930.0	17.0	25.0
973.4	4225.4	17.2	15.4
959.0	6997.3	15.3	32.0
927.2	5765.4	13.9	87.0
773.0	7622.6	12.1	75.0
735.9	9335.8	9.8	73.0
700.0	10336.3	7.8	74.0
574.3	11349.6	5.1	3.8
516.2	13753.5	2.0	79.0
599.7	14492.9	-0.3	75.0
577.9	15460.4	-3	7.9
554.5	16547.7	-1.3	7.6
521.1	18155.5	-5.6	6.1
516.1	18514.3	-5.7	3.6
500.0	19231.5	-5.7	10.7
478.5	20359.3	-7.8	14.0
471.3	20766.7	-9.0	16.4
447.6	22054.0	-12.7	14.1
425.4	23255.6	-15.5	17.5
403.0	24846.1	-18.0	27.2
394.5	25135.6	-18.7	25.1
383.3	25357.5	-19.9	30.2
361.9	27295.2	-23.1	40.7
342.7	28589.3	-25.8	42.4
330.0	31778.2	-33.5	50.0
298.4	31831.9	-35.1	50.2
287.2	32714.3	-34.9	52.2
275.0	33624.2	-37.1	56.1
262.7	34918.2	-38.3	55.5
250.0	35852.9	-40.2	17.0
249.7	39729.5	-50.2	15.0
240.3	40744.3	-52.1	15.0
177.7	43246.2	-57.5	15.0
152.3	45405.6	-65.0	15.0
150.7	46714.5	-62.7	
144.3	47415.6	-53.9	
139.3	49111.2	-53.1	
129.7	49553.0	-45.3	
115.7	51996.3	-27.0	
100.7	54773.5	-71.2	

STATION ALTITUDE 3650 FEET +55
19 JUNE 34 0650 MDT
ASCENSION NO. 235

SIGNIFICANT LEVEL DATA
171002Z35
WHITE SANDS
TABLE 4 Cont'd

GEODETIC COORDINATES
32.60063 LAT DEG
116.37033 LON DEG

PRESSURE GLOSSMERIC MILLIBARS	GLOMERIC ALTITUDE FEET MSL	TEMPERATURE		
		AIR DEGREES	DEWPNT CENTIGRADE	REL.HUM. PERCENT
75.0	67627.3	-58.5		
75.0	51973.4	-55.5		
50.0	59673.3	-58.4		
39.2	77773.6	-55.6		

STATION ALTITUDE 3327 FEET "SL"
19 DEGREES 34 ASCENSION 40. 335

UPPER AIR DATA
1710020135
WHITE SANDS
GEODETIC COORDINATES
32° 6' 33" LAT DEG
106° 37' 33" LON DEG

TABLE 5

STATION ALTITUDE	PRESSURE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. DEPOINT PERCENT	SQ.CUBIC METERS KNOTS	SPEED OF WIND DATA	INDEX OF REFRACTION
3327.0	990.8	17.0	15.3	93.0	126.0	2.9
4000.0	880.5	17.0	15.9	92.8	134.8	2.9
4500.0	664.7	15.5	14.6	88.3	1052.5	2.9
5000.0	649.6	15.3	13.1	97.1	1010.3	2.0
5500.0	534.5	14.3	13.1	72.6	1326.5	5.1
6000.0	19.6	13.6	12.5	93.4	562.8	12.3
6500.0	805.0	13.1	11.5	70.2	939.2	16.2
7000.0	730.5	12.7	10.6	37.3	971.3	136.7
7500.0	775.4	12.2	9.3	9.3	957.7	663.6
8000.0	762.5	11.4	5.1	90.1	962.3	89.3
8500.0	743.7	10.6	6.6	76.3	928.1	79.7
9000.0	715.2	9.7	5.1	73.0	914.3	62.7
9500.0	721.8	9.0	4.5	75.4	901.3	656.7
10000.0	708.7	8.3	3.9	73.8	887.3	655.3
10500.0	695.8	7.5	3.5	75.8	973.5	555.0
11000.0	683.1	6.7	3.7	81.2	859.3	556.1
11500.0	670.5	5.8	3.5	34.5	833.5	552.2
12000.0	658.1	5.0	2.6	83.6	820.3	551.1
12500.0	646.0	4.1	1.4	92.1	808.3	550.3
13000.0	634.6	3.3	3.3	30.7	796.7	649.7
13500.0	622.3	2.4	-7	79.7	783.9	647.7
14000.0	610.7	1.4	-9	84.3	772.1	565.7
14500.0	599.1	1.3	-4	75.0	750.2	565.4
15000.0	583.1	-0.0	-6	25.5	747.2	645.1
15500.0	577.0	-1.3	-1.1	74.8	734.1	564.7
16000.0	566.2	-0.3	-3.3	79.1	722.0	563.2
16500.0	555.5	-1.3	-7.3	53.5	71.0	563.2
17000.0	545.0	-2.5	-6.9	71.5	69.7	563.2
17500.0	536.6	-3.6	-6.4	82.5	68.0	562.0
18000.0	485.2	-7.4	-12.9	54.8	67.0	558.6
18500.0	514.4	-5.2	-5.2	92.5	67.6	554.5
19000.0	504.5	-5.4	-10.0	8.5	80.7	558.6
19500.0	626.8	-7.0	-11.5	70.3	657.4	557.0
20000.0	485.2	-7.4	-12.9	54.8	566.5	575.2
20500.0	475.9	-8.2	-14.1	52.5	635.1	635.6
21000.0	464.6	-7.2	-14.2	59.5	624.3	554.5
21500.0	457.5	-11.1	-14.1	78.7	607.2	631.2
22000.0	448.5	-12.5	-14.1	97.5	598.5	529.5
22500.0	439.7	-13.8	-15.4	37.5	580.5	627.7
23000.0	411.0	-15.0	-16.9	95.9	581.3	526.0

STATION ALTITUDE 52.646
16 JUNE 94 1991 "SL
P 45 0650 MDT
ASCENSION NO. 355

UPPER AIR DATA
171002Z355
WHITE SANDS

STATIC COORDINATES
32.43045 LAT DEG
126.37033 LON DEG

TABLE 5 Cont'd.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT DEGREES	REL.HUM. PERCENT	SPEED OF SOUND KNOTS METER	DIRECTION DEGREES (TQ)	WIND DATA SPEED (KNOTS) <40TS	140EX OF REFRACTION
23500.0	422.4	-16.0	-16.3	78.9	571.6	203.5	12.6	1.0000135
24400.0	413.9	-15.7	-21.5	55.9	561.3	251.2	15.9	1.0000131
24500.0	415.6	-17.5	-24.7	53.0	552.3	194.7	15.6	1.0000128
25000.0	397.5	-18.3	-26.2	6.9.7	525.2	193.2	19.1	1.0000125
25500.0	395.5	-19.3	-27.3	4.8.6	522.1	192.5	20.7	1.0000123
26000.0	381.6	-20.2	-31.1	2.6.9	520.9	220.9	22.0	1.0000120
26500.0	373.3	-21.3	-34.4	2.9.5	517.0	518.3	23.9	1.0000117
27000.0	365.2	-22.5	-33.2	2.2.2	510.7	616.3	25.7	1.0000115
27500.0	358.7	-23.7	-41.0	1.6.5	507.3	515.3	215.4	1.0000113
28000.0	351.3	-25.1	-41.6	1.9.6	497.3	513.6	215.8	1.0000111
28500.0	344.0	-26.5	-44.3	2.0.3	485.7	511.8	214.5	1.0000109
29000.0	335.8	-27.7	-45.4	>0.5	477.8	610.4	215.1	1.0000107
29500.0	329.6	-28.6	-46.5	1.9.8	469.3	553.1	216.3	1.0000105
30000.0	322.7	-29.8	-45.3	1.9.2	451.7	597.7	216.3	1.0000104
30500.0	315.9	-30.9	-47.0	1.8.5	454.2	505.4	216.2	1.0000102
31000.0	309.2	-32.0	-48.3	1.7.3	446.5	605.0	215.3	1.0000101
31500.0	302.7	-33.1	-49.5	1.7.3	439.1	535.7	215.9	1.0000093
32000.0	296.2	-33.4	-50.5	1.5.9	430.5	503.2	216.4	1.0000095
32500.0	289.9	-34.5	-51.7	1.5.2	427.1	501.3	215.3	1.0000095
33000.0	283.6	-35.6	-52.9	1.5.0	415.0	522.5	215.2	1.0000093
33500.0	277.5	-36.3	-53.8	1.5.0	409.0	598.3	215.7	1.0000091
34000.0	271.5	-37.6	-54.5	1.5.0	401.5	597.9	216.5	1.0000090
34500.0	265.5	-38.5	-55.0	1.5.0	391.3	597.1	217.4	1.0000088
35000.0	259.8	-38.9	-56.3	1.3.7***	386.3	596.2	219.3	1.0000085
35500.0	254.1	-39.7	-53.5	5.8**	379.0	525.3	220.4	1.0000085
36000.0	248.4	-40.6	-40.5		372.1	594.1	220.7	1.0000083
36500.0	242.9	-41.8	-41.8		365.9	592.5	220.5	1.0000081
37000.0	237.4	-43.1	-43.1		359.9	590.8	221.7	1.0000079
37500.0	232.1	-44.4	-44.4		353.5	599.2	222.2	1.0000079
38000.0	226.9	-45.7	-45.7		347.5	587.5	222.7	1.0000077
38500.0	221.6	-47.0	-47.0		341.5	585.8	223.5	1.0000076
39000.0	215.8	-48.3	-48.3		335.9	594.2	226.7	1.0000075
39500.0	211.9	-49.6	-49.6		330.2	592.5	226.2	1.0000073
40000.0	207.1	-50.7	-50.7		324.3	581.3	222.7	1.0000072
40500.0	202.3	-51.5	-51.5		318.1	579.8	222.7	1.0000071
41000.0	197.6	-52.7	-52.7		312.2	578.5	234.8	1.0000070
41500.0	193.0	-53.7	-53.7		306.4	577.1	237.1	1.0000069
42000.0	188.4	-56.5	-56.5		300.7	575.6	236.3	1.0000067
42500.0	184.0	-55.9	-55.9		295.1	574.2	235.6	1.0000066
43000.0	179.7	-57.0	-57.0		289.5	572.8	235.4	1.0000065

** AT LEAST ONE ASSIGNED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3969.00 FEET "SL
19 JUNE 84 0650 MDT
ASCENSION NO. 355

UPPER AIR DATA
1710C20135
WHITE SANDS

TABLE 5 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY KG/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA KNOTS	INDEX OF REFRACTION
43500.0	175.4	-59.0	784.0	571.5	234.0	51.1	1.000063	
44000.0	171.2	-53.9	279.0	570.3	234.7	50.2	1.000062	
44500.0	167.1	-59.8	272.3	559.1	234.5	49.3	1.000061	
45000.0	163.1	-63.7	267.6	567.9	233.7	47.0	1.000060	
45500.0	159.2	-61.9	262.1	555.7	232.7	44.7	1.000059	
46000.0	155.3	-62.5	256.9	555.5	233.5	41.3	1.000057	
46500.0	151.6	-63.0	251.6	556.7	234.8	37.8	1.000056	
47000.0	147.9	-63.4	245.6	564.5	239.1	32.9	1.000055	
47500.0	144.3	-63.8	240.1	563.7	243.2	27.6	1.000053	
48000.0	140.8	-63.5	235.7	564.4	243.4	24.5	1.000052	
48500.0	137.3	-63.7	228.5	553.8	243.3	21.5	1.000051	
49000.0	134.0	-64.0	223.8	562.6	242.9	19.4	1.000050	
49500.0	130.7	-65.5	219.3	551.4	241.4	17.3	1.000049	
50000.0	127.4	-66.4	214.3	550.1	243.4	16.9	1.000048	
50500.0	124.3	-67.3	210.3	558.9	268.2	12.4	1.000047	
51000.0	121.2	-68.2	206.7	557.7	249.5	10.4	1.000046	
51500.0	118.2	-69.1	201.3	555.5	246.2	9.6	1.000045	
52000.0	115.2	-70.0	197.6	555.3	236.6	7.7	1.000044	
52500.0	112.3	-70.2	192.8	555.0	215.0	6.4	1.000043	
53000.0	109.5	-70.4	188.1	554.7	202.5	3.6	1.000042	
53500.0	106.7	-70.7	187.5	556.4	193.9	10.5	1.000041	
54000.0	104.0	-70.9	179.2	556.1	187.4	11.5	1.000040	
54500.0	101.4	-71.1	174.9	553.8	185.7	11.4	1.000039	
55000.0	98.9	-71.1	170.4	552.8	184.0	12.1	1.000038	
55500.0	96.4	-70.9	166.7	556.1	184.0	11.1	1.000037	
56000.0	94.0	-70.5	161.5	556.4	186.0	12.2	1.000036	
56500.0	91.6	-70.4	157.4	554.8	186.6	8.9	1.000035	
57000.0	89.3	-70.1	153.2	555.1	191.5	7.6	1.000034	
57500.0	87.0	-69.3	149.2	555.4	158.5	5.9	1.000033	
58000.0	84.9	-69.7	145.1	555.7	146.0	4.5	1.000032	
58500.0	82.7	-69.4	141.5	556.1	128.7	4.6	1.000031	
59000.0	80.7	-69.2	137.7	556.4	161.7	6.8	1.000030	
59500.0	78.6	-68.9	134.1	555.7	149.5	5.0	1.000029	
60000.0	76.7	-68.7	130.6	557.0	146.1	6.9	1.000028	
60500.0	74.7	-68.3	127.1	557.5	136.7	6.9	1.000027	
61000.0	72.9	-67.3	123.5	559.0	105.1	6.7	1.000026	
61500.0	71.1	-66.2	119.4	550.5	246.0	3.2	1.000025	
62000.0	69.3	-65.5	115.2	551.7	100.5	11.2	1.000024	
62500.0	67.7	-66.8	117.1	562.4	107.4	13.2	1.000023	
63000.0	66.3	-64.3	110.1	553.1	107.4	14.5	1.000022	

STATION ALTITUDE 398 FEET NL
19 JUNE 5, 0650 MDT
ASCENSION NO. 315

UNPR AIR DATA
171002Z35
WHITE SANDS

GEODETIC COORDINATES
32°45' LAT DEG
106.37033 LONG DEG

TABLE 5 Cont'd

GEODETIC ALTITUDE PSL FEET	PRESSURE WILLIAMS DEGREES	TEMPERATURE AIR DEGREES CENTIGRADE	REFLUMA PERCENT	SOUND KNOTS	WIND DATA DIRECTION DEGREES (4) SPEED KNOTS	INDEX OF REFRACTION
63500.0	54.4	-63.7	107.2	563.7	103.3	15.1
64000.0	52.9	-63.6	104.3	564.6	101.1	15.9
64500.0	51.3	-62.7	101.5	565.1	100.7	15.4
65000.0	50.3	-62.2	98.3	565.8	98.9	15.0
65500.0	50.4	-61.7	96.2	566.5	99.2	14.9
66000.0	50.0	-61.2	97.7	567.2	99.5	14.7
66500.0	55.6	-60.5	91.2	567.9	94.2	14.8
67000.0	54.3	-60.1	89.8	568.6	95.5	15.2
67500.0	53.0	-59.0	86.4	569.3	97.3	15.0
68000.0	51.7	-59.1	94.1	570.0	75.1	17.2
68500.0	50.4	-53.6	81.9	570.7	74.0	13.3
69000.0	49.2	-58.2	79.8	571.1	93.5	18.9
69500.0	46.1	-57.9	77.9	571.5	92.1	20.1
70000.0	46.9	-57.7	75.9	571.9	101.8	20.4
70500.0	45.9	-57.4	74.0	572.2	112.8	20.5
71000.0	44.7	-57.1	72.2	572.6	123.1	21.6
71500.0	43.7	-56.8	70.4	573.0	119.6	17.2
72000.0	42.7	-56.6	68.5	573.5	111.5	17.1
72500.0	41.7	-56.3	66.7	573.7	100.0	15.0
73000.0	40.7	-56.0	55.3	574.1	100.0	15.0
73500.0	39.7	-55.7	53.5	574.4	100.0	15.0

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES						
19 JUNE 34						
ASCENSION NO. 345						
STATION ALTITUDE FEET						
MILLIPARS	FEET	GEOPOENTIAL	TEMPERATURE	REL.HUM.	DATA CNTS	SPEED
MILLIPARS	FEET	DEGREES CFNTIGRADE	AIR DEPOINT	PERCENT	DIRECTION DEGREES(10)	KNOTS
85.0	4384.	15.3	13.2	97.	121.9	5.9
86.0	6666.	13.3	11.2	99.	133.7	15.3
75.0	8446.	12.5	6.7	77.	77.5	15.9
72.0	13322.	7.8	3.5	74.	57.4	11.0
65.0	12324.	6.4	1.7	93.	5.1	6.1
60.0	14452.	3	-4	95.	6.7	2.3
55.0	16747.	-1.2	-7.1	66.	247.9	8.3
52.0	19206.	-5.7	-10.7	73.	226.7	8.1
45.0	21186.	-12.1	-16.1	95.	212.7	11.5
40.0	24804.	-15.0	-27.2	64.	191.5	17.2
35.0	28735.	-25.4	-61.7	23.	215.5	29.2
32.0	31566.	-35.5	-50.0	17.	215.1	45.5
25.0	35784.	-60.2			222.6	56.0
20.0	42013.	-52.1			237.5	52.0
17.5	43442.	-59.1			236.8	51.3
15.0	46587.	-62.7			235.5	56.1
12.5	50244.	-67.1			246.8	13.1
10.0	54621.	-71.2			136.8	11.9
8.0	58355.	-69.1			166.7	6.9
7.0	61591.	-65.5			96.6	13.5
6.0	64691.	-62.2			39.1	15.1
5.0	68412.	-58.6			75.8	18.4
4.0	73052.	-55.5				

SIGNIFICANT LEVEL DATA	STATION NO. 1740040104	DATE JUNE 26, 1964	TIME 1007, 1964	REF. NO. 0650 LCN	REF. NO. 0650 LCN	PERCENT	DEPARTMENT OF TRANSPORT CANADA	APPROVED DESIGN GRADE	DESIGN POINT	REF. NO. 0650 LCN
0.00	1.70	1.70	1.70	1.70	1.70	100.0	1.70	1.70	1.70	1.70
0.20	1.72	1.72	1.72	1.72	1.72	92.0	1.72	1.72	1.72	1.72
0.40	1.74	1.74	1.74	1.74	1.74	84.0	1.74	1.74	1.74	1.74
0.60	1.76	1.76	1.76	1.76	1.76	76.0	1.76	1.76	1.76	1.76
0.80	1.78	1.78	1.78	1.78	1.78	68.0	1.78	1.78	1.78	1.78
1.00	1.80	1.80	1.80	1.80	1.80	60.0	1.80	1.80	1.80	1.80
1.20	1.82	1.82	1.82	1.82	1.82	52.0	1.82	1.82	1.82	1.82
1.40	1.84	1.84	1.84	1.84	1.84	44.0	1.84	1.84	1.84	1.84
1.60	1.86	1.86	1.86	1.86	1.86	36.0	1.86	1.86	1.86	1.86
1.80	1.88	1.88	1.88	1.88	1.88	28.0	1.88	1.88	1.88	1.88
2.00	1.90	1.90	1.90	1.90	1.90	20.0	1.90	1.90	1.90	1.90
2.20	1.92	1.92	1.92	1.92	1.92	12.0	1.92	1.92	1.92	1.92
2.40	1.94	1.94	1.94	1.94	1.94	4.0	1.94	1.94	1.94	1.94
2.60	1.96	1.96	1.96	1.96	1.96	0.0	1.96	1.96	1.96	1.96

TABLE 7

6300311 C0N801NATES
32.48034 LAT 036
106.62507 LONG 036

SATION ALTITUDE 10970 FT. F.F.T.
TO JUNIPER, ID
ELEVATION NO. 111
0650 MDT

UPPER AIR DATA
1-1000000000

GEODETIC COORDINATES
52°48'34" LAT DEG
106°42'20" LON NEG

TABLE 8

TEMPERATURE, PRESSURE	TEMPERATURE, MILLIBARS	DENSITY, PERCENT	WIND, KNOTS	DIRECTION OF WIND (TN)	SPEED OF WIND (TN)	INDEX OF REFRACTION
1097.4	801.0	97.1	15.4	00.0	120.0	6.0
1090.0	800.0	17.1	15.4	170.0	210.0	6.0
1085.6	800.0	16.0	15.4	193.0	194.0	5.2
1081.1	800.0	14.7	15.4	167.7	167.7	5.6
1077.6	800.0	12.9	15.4	147.4	147.4	6.0
1074.1	800.0	12.0	15.4	100.1	100.1	6.0
1070.6	800.0	11.1	15.4	99.2	99.2	6.0
1067.1	800.0	10.1	15.4	99.5	99.5	6.0
1063.6	800.0	9.2	15.4	99.8	99.8	6.0
1060.1	800.0	8.3	15.4	99.9	99.9	6.0
1056.6	800.0	7.4	15.4	99.9	99.9	6.0
1053.1	800.0	6.5	15.4	99.9	99.9	6.0
1049.6	800.0	5.6	15.4	99.9	99.9	6.0
1046.1	800.0	4.7	15.4	99.9	99.9	6.0
1042.6	800.0	3.8	15.4	99.9	99.9	6.0
1039.1	800.0	3.0	15.4	99.9	99.9	6.0
1035.6	800.0	2.1	15.4	99.9	99.9	6.0
1032.1	800.0	1.2	15.4	99.9	99.9	6.0
1028.6	800.0	0.4	15.4	99.9	99.9	6.0
1025.1	800.0	-0.3	15.4	99.9	99.9	6.0
1021.6	800.0	-1.2	15.4	99.9	99.9	6.0
1018.1	800.0	-2.1	15.4	99.9	99.9	6.0
1014.6	800.0	-3.0	15.4	99.9	99.9	6.0
1011.1	800.0	-3.9	15.4	99.9	99.9	6.0
1007.6	800.0	-4.8	15.4	99.9	99.9	6.0
1004.1	800.0	-5.7	15.4	99.9	99.9	6.0
1000.6	800.0	-6.6	15.4	99.9	99.9	6.0
997.1	800.0	-7.5	15.4	99.9	99.9	6.0
993.6	800.0	-8.4	15.4	99.9	99.9	6.0
990.1	800.0	-9.3	15.4	99.9	99.9	6.0
986.6	800.0	-10.2	15.4	99.9	99.9	6.0
983.1	800.0	-11.1	15.4	99.9	99.9	6.0
979.6	800.0	-12.0	15.4	99.9	99.9	6.0
976.1	800.0	-12.9	15.4	99.9	99.9	6.0
972.6	800.0	-13.8	15.4	99.9	99.9	6.0
969.1	800.0	-14.7	15.4	99.9	99.9	6.0
965.6	800.0	-15.6	15.4	99.9	99.9	6.0
962.1	800.0	-16.5	15.4	99.9	99.9	6.0
958.6	800.0	-17.4	15.4	99.9	99.9	6.0
955.1	800.0	-18.3	15.4	99.9	99.9	6.0
951.6	800.0	-19.2	15.4	99.9	99.9	6.0
948.1	800.0	-20.1	15.4	99.9	99.9	6.0
944.6	800.0	-21.0	15.4	99.9	99.9	6.0
941.1	800.0	-21.9	15.4	99.9	99.9	6.0
937.6	800.0	-22.8	15.4	99.9	99.9	6.0
934.1	800.0	-23.7	15.4	99.9	99.9	6.0
930.6	800.0	-24.6	15.4	99.9	99.9	6.0
927.1	800.0	-25.5	15.4	99.9	99.9	6.0
923.6	800.0	-26.4	15.4	99.9	99.9	6.0
920.1	800.0	-27.3	15.4	99.9	99.9	6.0
916.6	800.0	-28.2	15.4	99.9	99.9	6.0
913.1	800.0	-29.1	15.4	99.9	99.9	6.0
909.6	800.0	-30.0	15.4	99.9	99.9	6.0
906.1	800.0	-30.9	15.4	99.9	99.9	6.0
902.6	800.0	-31.8	15.4	99.9	99.9	6.0
899.1	800.0	-32.7	15.4	99.9	99.9	6.0
895.6	800.0	-33.6	15.4	99.9	99.9	6.0
892.1	800.0	-34.5	15.4	99.9	99.9	6.0
888.6	800.0	-35.4	15.4	99.9	99.9	6.0
885.1	800.0	-36.3	15.4	99.9	99.9	6.0
881.6	800.0	-37.2	15.4	99.9	99.9	6.0
878.1	800.0	-38.1	15.4	99.9	99.9	6.0
874.6	800.0	-39.0	15.4	99.9	99.9	6.0
871.1	800.0	-39.9	15.4	99.9	99.9	6.0
867.6	800.0	-40.8	15.4	99.9	99.9	6.0
864.1	800.0	-41.7	15.4	99.9	99.9	6.0
860.6	800.0	-42.6	15.4	99.9	99.9	6.0
857.1	800.0	-43.5	15.4	99.9	99.9	6.0
853.6	800.0	-44.4	15.4	99.9	99.9	6.0
850.1	800.0	-45.3	15.4	99.9	99.9	6.0
846.6	800.0	-46.2	15.4	99.9	99.9	6.0
843.1	800.0	-47.1	15.4	99.9	99.9	6.0
839.6	800.0	-48.0	15.4	99.9	99.9	6.0
836.1	800.0	-48.9	15.4	99.9	99.9	6.0
832.6	800.0	-49.8	15.4	99.9	99.9	6.0
829.1	800.0	-50.7	15.4	99.9	99.9	6.0
825.6	800.0	-51.6	15.4	99.9	99.9	6.0
822.1	800.0	-52.5	15.4	99.9	99.9	6.0
818.6	800.0	-53.4	15.4	99.9	99.9	6.0
815.1	800.0	-54.3	15.4	99.9	99.9	6.0
811.6	800.0	-55.2	15.4	99.9	99.9	6.0
808.1	800.0	-56.1	15.4	99.9	99.9	6.0
804.6	800.0	-57.0	15.4	99.9	99.9	6.0
801.1	800.0	-57.9	15.4	99.9	99.9	6.0
797.6	800.0	-58.8	15.4	99.9	99.9	6.0
794.1	800.0	-59.7	15.4	99.9	99.9	6.0
790.6	800.0	-60.6	15.4	99.9	99.9	6.0
787.1	800.0	-61.5	15.4	99.9	99.9	6.0
783.6	800.0	-62.4	15.4	99.9	99.9	6.0
780.1	800.0	-63.3	15.4	99.9	99.9	6.0
776.6	800.0	-64.2	15.4	99.9	99.9	6.0
773.1	800.0	-65.1	15.4	99.9	99.9	6.0
769.6	800.0	-66.0	15.4	99.9	99.9	6.0
766.1	800.0	-66.9	15.4	99.9	99.9	6.0
762.6	800.0	-67.8	15.4	99.9	99.9	6.0
759.1	800.0	-68.7	15.4	99.9	99.9	6.0
755.6	800.0	-69.6	15.4	99.9	99.9	6.0
752.1	800.0	-70.5	15.4	99.9	99.9	6.0
748.6	800.0	-71.4	15.4	99.9	99.9	6.0
745.1	800.0	-72.3	15.4	99.9	99.9	6.0
741.6	800.0	-73.2	15.4	99.9	99.9	6.0
738.1	800.0	-74.1	15.4	99.9	99.9	6.0
734.6	800.0	-75.0	15.4	99.9	99.9	6.0
731.1	800.0	-75.9	15.4	99.9	99.9	6.0
727.6	800.0	-76.8	15.4	99.9	99.9	6.0
724.1	800.0	-77.7	15.4	99.9	99.9	6.0
720.6	800.0	-78.6	15.4	99.9	99.9	6.0
717.1	800.0	-79.5	15.4	99.9	99.9	6.0
713.6	800.0	-80.4	15.4	99.9	99.9	6.0
710.1	800.0	-81.3	15.4	99.9	99.9	6.0
706.6	800.0	-82.2	15.4	99.9	99.9	6.0
703.1	800.0	-83.1	15.4	99.9	99.9	6.0
709.6	800.0	-84.0	15.4	99.9	99.9	6.0
706.1	800.0	-84.9	15.4	99.9	99.9	6.0
702.6	800.0	-85.8	15.4	99.9	99.9	6.0
699.1	800.0	-86.7	15.4	99.9	99.9	6.0
695.6	800.0	-87.6	15.4	99.9	99.9	6.0
692.1	800.0	-88.5	15.4	99.9	99.9	6.0
688.6	800.0	-89.4	15.4	99.9	99.9	6.0
685.1	800.0	-90.3	15.4	99.9	99.9	6.0
681.6	800.0	-91.2	15.4	99.9	99.9	6.0
678.1	800.0	-92.1	15.4	99.9	99.9	6.0
674.6	800.0	-93.0	15.4	99.9	99.9	6.0
671.1	800.0	-93.9	15.4	99.9	99.9	6.0
667.6	800.0	-94.8	15.4	99.9	99.9	6.0
664.1	800.0	-95.7	15.4	99.9	99.9	6.0
660.6	800.0	-96.6	15.4	99.9	99.9	6.0
657.1	800.0	-97.5	15.4	99.9	99.9	6.0
653.6	800.0	-98.4	15.4	99.9	99.9	6.0
650.1	800.0	-99.3	15.4	99.9	99.9	6.0
646.6	800.0	-100.2	15.4	99.9	99.9	6.0
643.1	800.0	-101.1	15.4	99.9	99.9	6.0
639.6	800.0	-102.0	15.4	99.9	99.9	6.0
636.1	800.0	-102.9	15.4	99.9	99.9	6.0
632.6	800.0	-103.8	15.4	99.9	99.9	6.0
629.1	800.0	-104.7	15.4	99.9	99.9	6.0
625.6	800.0	-105.6	15.4	99.9	99.9	6.0
622.1	800.0	-106.5	15.4	99.9	99.9	6.0
618.6	800.0	-107.4	15.4	99.9	99.9	6.0
615.1	800.0	-108.3	15.4	99.9	99.9	6.0
611.6	800.0	-109.2	15.4	99.9	99.9	6.0
608.1	800.0	-110.1	15.4	99.9	99.9	6.0
604.6	800.0	-111.0	15.4	99.9	99.9	6.0
601.1	800.0	-111.9	15.4	99.9	99.9	6.0
597.6	800.0	-112.8	15.4	99.9	99.9	6.0
594.1	800.0	-113.7	15.4	99.9	99.9	6.0
590.6	800.0	-114.6	15.4	99.9	99.9	6.0
587.1	800.0	-115.5	15.4	99.9	99.9	6.0
583.6	800.0	-116.4	15.4	99.9	99.9	6.0
580.1	800.0	-117.3	15.4	99.9	99.9	6.0
576.6	800.0	-118.2	15.4	99.9	99.9	6.0
573.1	800.0	-119.1	15.4	99.9	99.9	6.0
569.6	800.0	-120.0	15.4	99.9	99.9	6.0
566.1	800.0	-120.9	15.4	99.9	99.9	6.0
562.6	800.0	-121.8	15.4	99.9	99.9	6.0
559.1	800.0	-122.7	15.4	99.9	99.	

STATION ALTITUDE 7007.70 FEET MSL
C JUN 84
ASCENSION NO. 1911
0650 MDT

MANDATORY LEVELS

GROTELLI, COORDINATES
32°48'36" LAT DEG
106°42'07" LON DEG

TABLE 9

PRESSURE MILLIBARS	REL. FEET	DEGREES CENTIGRADE	TEMPERATURE			DELTUM. DEGREES	WIND DATA
			AIR DEWPNT	DEGREES CENTIGRADE	SPEED DEGREES(M)		
800.0	5110.	16.5	12.4	82.	167.6	5.6	
680.0	6480.	12.6	11.5	87.	125.1	11.9	
647.0	8471.	11.7	7.4	76.	77.6	15.7	
605.7	10457.	9.5	2.4	71.	61.0	16.5	
450.0	12610.	5.4	1.5	75.			

STATION ALTITUDE 3989.0 FEET "SL
19 JUNE 54 0825 MDT
ASCENSION NO. 336

SIGNIFICANT LEVEL DATA
171002Z355
WHITE SANDS
TABLE 10

GEODETIC COORDINATES
32°43'43" LAT NEG
106°37'33" LONG DEG

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR DEWPOINT	REL.HUM.
MILLIBARS	MSL FEET	DEGREES CFNT/IRADE	PERCENT
931.3	5989.0	15.6 15.7	95.0
879.3	4559.3	12.0 14.1	73.0
850.0	5023.5	15.0 14.4	90.0
915.0	6125.7	15.5 15.1	77.0
700.0	12371.0	7.0 6.6	97.0
683.1	11033.2	5.8 5.4	97.0
540.0	12747.1	2.9 7.5	73.0
612.5	13952.1	1.2 -1.2	34.0
599.5	14574.5	-15.8 -17.7	72.0

STATION ALTITUDE 3930.0 FT ELEV MSL
19 JUNE 84 0825 MDT
ASCENSION NO. 336

UPPER AIR DATA
171°C 2336
WHITE SANDS
0825 MDT
TABLE 11

GEODETIC COORDINATES
52.63043 LAT DEG
106.37733 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY SOUND AFTER	SPEED OF WIND DATA KNOTS	DIRECTION DEGREES(TW)	WIND SPEED KNOTS	INDEX OF REFRACTION
3989.0	891.8	13.6	15.7	83.0	1044.3	559.0	45.0	1.000312
4000.0	891.5	13.7	15.5	81.6	1044.4	558.0	45.0	1.000311
4500.0	866.0	17.6	14.3	90.7	1030.3	666.7	72.7	1.000303
5000.0	850.7	15.1	16.4	89.6	1017.2	555.0	84.7	1.000301
5500.0	835.6	15.0	13.9	72.8	1002.3	663.7	30.2	1.000295
6000.0	820.8	14.0	13.3	95.8	988.7	552.5	93.7	1.000291
6500.0	826.0	13.1	12.7	97.7	974.1	551.4	95.7	1.000285
7000.0	791.5	12.3	11.9	97.0	959.4	667.4	103.3	1.000279
7500.0	777.2	11.5	11.1	97.0	944.9	559.4	110.2	1.000272
8000.0	763.2	10.7	10.3	97.0	930.5	658.5	110.9	1.000265
8500.0	749.4	10.0	9.5	97.0	916.5	557.5	108.7	1.000260
9000.0	735.9	9.2	8.7	97.0	902.7	555.5	106.4	1.000255
9500.0	722.6	8.4	7.9	97.0	880.1	655.5	95.5	1.000249
10000.0	709.5	7.6	7.1	97.0	875.7	654.5	84.3	1.000244
10500.0	696.7	7.3	6.5	97.0	861.7	553.7	75.5	12.1
11000.0	583.9	5.8	6.4	97.0	846.5	553.6	75.1	10.7
11500.0	671.3	5.7	4.5	91.8	834.5	652.1	65.1	11.2
12000.0	659.0	4.0	2.5	86.3	823.0	552.6	55.2	13.7
12500.0	646.8	3.5	-5	30.7	911.5	569.1	12.1	1.000212
13000.0	634.8	2.5	-7	79.3	799.4	569.0	1.000207	1.000207
13500.0	623.0	1.8	-9	51.7	736.5	667.1	1.000204	1.000199
14000.0	611.4	-1	-2.6	93.0	777.3	544.8	1.000199	1.000193
14500.0	599.6	-13.7	-17.6	72.1	804.0	627.8		

STATION ALTITUDE 3957.7 FT. "SL
10 JUNE 54 0825 MDT
ASCENSION NO. 536

AERODYNAMIC LEVELS

SPECIFIC COORDINATES
32.4063 LAT DEG
136.37033 LON DEG

TABLE 12

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL.HUM. PERCENT	WIND DATA	
		AIR DEGREES	DEWPONT CFTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
950.0	5020.	16.0	14.4	90.	36.6	6.5
877.0	5737.	12.9	12.3	97.	92.9	9.0
757.0	8483.	10.0	9.5	97.	129.8	9.0
700.0	10361.	7.0	6.6	97.	79.4	10.7
653.0	12357.	5.0	1.0	92.	55.5	10.4
600.0	14466.	-13.2	-17.1			

STATION 4L11-UPE 1997.08.08^{EE} MDT
10 JUNE 02
ASCESTOR 40. 194

SIGNIFICANT LEVEL DATA
171004Z104

GEODETIC COORDINATES
32°48'34" LAT DEG
106°42'07" LON DEG

TABLE 13

PRESSURE MILLIBARS	GEODETIC ALTITUDE METERS	TEMPERATURE		REL.HUM. PERCENT
		AIR DEGREES	DEWPNT CENTIGRADE	
981.2	7070.5	10.9	15.1	74.0
979.5	4000.5	17.4	15.4	97.7
956.7	5117.6	15.3	14.0	96.0
914.6	4126.5	13.6	13.1	97.7
717.7	9845.0	8.7	7.7	98.0
709.5	17245.4	6.2	5.5	95.0
662.0	11832.9	4.8	4.4	97.7
651.6	12204.5	4.1	3.4	95.0
437.5	12147.4	2.8	-2.3	69.0

STATION ALTITUDE 1007.0 FEET MSL
10 JUNE 94 0825 MDT
ACFTN 40. 106

UPPER AIR DATA
171004Z0104
C W R

GRODETT COORDINATES
32.48N34 LAT DEG
106.42W07 LONG DEG

TABLE 14

REFERENCE	PRESSURE	TEMPERATURE	RFL.HUM.	DENSITY	SPEED OF	WIND DATA	INDEX
ALTITUDE	'SL	'SL	DRYPOINT	PERCENT	CM/CUBIC	DIRECTION	OF
FEET	MILLIBARS	REFRACTIVE INDEX	REFRACTIVE INDEX	KNOTS	FEETES (TN)	SPEED	REFRACTION
2097.0	991.6	10.9	15.1	74.0	1040.0	669.6	1.00303
2096.0	991.2	19.8	15.1	74.4	1040.2	669.3	1.00303
2095.0	990.8	17.0	14.8	96.0	1039.8	666.1	1.00303
2094.0	990.5	16.3	14.0	96.0	1016.7	665.2	1.00209
2093.0	990.4	15.1	11.6	90.7	1007.4	663.8	1.00295
2092.0	990.6	13.9	13.2	95.7	98.0	662.4	1.00200
2091.0	990.9	12.1	12.1	97.1	97.4	661.3	1.00285
2090.0	991.4	12.3	11.9	97.7	95.0	660.7	1.00279
2089.0	991.1	11.5	11.1	97.4	94.6	659.5	1.00273
2088.0	991.0	10.8	10.4	97.5	93.6	658.5	1.00267
2087.0	990.3	10.0	9.7	97.6	91.6	657.6	1.00261
2086.0	990.5	9.3	9.0	97.9	90.7	656.7	1.00255
2085.0	990.6	8.5	8.2	97.9	88.8	655.7	1.00250
2084.0	990.5	7.5	7.1	97.1	87.4	654.4	1.00244
2083.0	990.5	6.1	5.4	95.2	86.4	652.4	1.00236
2082.0	993.7	5.6	5.0	95.0	85.0	652.0	1.00228
2081.0	991.1	5.1	4.6	96.5	83.6	651.6	1.00223
2080.0	993.8	4.5	4.1	96.3	82.7	650.7	1.00215
2079.0	996.6	3.7	1.9	97.0	81.7	649.6	1.00204
2078.0	994.6	2.9	-1.9	70.6	79.8	648.3	

CITY: BIRMINGHAM, AL 30070, 30' EEST MSL
 TO JUNE 24, 1964
 ASBESTOS, NC. 1000
 0825 MDT

MANUFACTURER LEVELS

GEODETIC COORDINATES
 32°48'34" LAT DEG
 106°42'07" LONG DEG

TABLE 15

PRESSURE GROUNTELL	TEMPERATURE	WIND DIRECTION	WIND SPEED DEGREES (TN) KNOTS	WIND DATA	
				OFFSHORE	PERCENT
1010.5	70.0	160.	4.0	101.0	60.0
1010.0	70.0	160.	4.0	101.0	60.0
1009.5	70.0	160.	4.0	101.0	60.0
1009.0	70.0	160.	4.0	101.0	60.0
1008.5	70.0	160.	4.0	101.0	60.0
1008.0	70.0	160.	4.0	101.0	60.0
1007.5	70.0	160.	4.0	101.0	60.0
1007.0	70.0	160.	4.0	101.0	60.0
1006.5	70.0	160.	4.0	101.0	60.0
1006.0	70.0	160.	4.0	101.0	60.0
1005.5	70.0	160.	4.0	101.0	60.0
1005.0	70.0	160.	4.0	101.0	60.0
1004.5	70.0	160.	4.0	101.0	60.0
1004.0	70.0	160.	4.0	101.0	60.0
1003.5	70.0	160.	4.0	101.0	60.0
1003.0	70.0	160.	4.0	101.0	60.0
1002.5	70.0	160.	4.0	101.0	60.0
1002.0	70.0	160.	4.0	101.0	60.0
1001.5	70.0	160.	4.0	101.0	60.0
1001.0	70.0	160.	4.0	101.0	60.0
1000.5	70.0	160.	4.0	101.0	60.0
1000.0	70.0	160.	4.0	101.0	60.0

STATION ALTITUDE 3980.0' MSL
19 JUNE 84 0910 MDT
ASCENSION NO. 537

SIGNIFICANT LEVEL DATA
171032Z337
WHITE SANDS

TABLE 16

GEODETIC COORDINATES
32°40'03" LAT DEG
106°37'03" LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE WSL FEET	TEMPERATURE AIR DEGREE DEGREES CENTIGRADE	REL.HUM. PERCENT
981.3	3989.0	19.2	92.0
977.3	4117.5	13.0	75.0
962.1	4629.2	17.4	86.0
950.0	5026.0	15.7	87.0
950.0	5026.0	13.5	77.0
785.9	7279.5	11.9	97.0
700.0	10370.2	5.8	97.0
582.5	11055.9	6.8	97.0
556.6	12193.3	5.9	96.0
540.3	12770.5	2.9	85.0
513.0	12928.9	1.1	99.0
500.1	14536.5	1.1	77.0

STATION ALTITUDE 3900.00 FEET *SL
 19 JUNE 54 0910 MDT
 ASCENSION #10. 537

UNPFR AIR DATA
 171002Z37
 WHITE SANDS

GEODETIC COORDINATES
 32°4.005 LAT DEG
 106.37033 LON DEG

TABLE 17

GLOBE TIC ALITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DWPPOINT CENTIGRADE	REL.HUM. PERCENT	SPEED OF GND/CUBIC METER KNOTS	DIRECTION DEGREES(TD)	DATA INDEX OF REFRACTION
3929.0	681.9	19.2	15.1	82.0	1042.5	553.7	1.0
4700.0	681.6	19.1	15.8	91.6	1042.7	668.6	0.0
4500.0	666.1	17.6	16.7	93.2	1030.3	555.7	1.6
5000.0	850.8	15.8	13.6	96.9	1719.6	664.6	3.1
5500.0	835.6	14.9	13.1	89.2	1003.9	553.6	0.6
6000.0	820.7	14.0	12.5	91.5	930.3	552.6	3.5
6500.0	806.1	13.1	12.2	93.3	974.4	661.4	3.6
7000.0	791.7	12.3	11.7	96.0	950.3	560.3	7.6
7500.0	777.5	11.4	11.0	97.0	945.7	659.3	3.3
8000.0	763.4	10.6	10.2	97.7	931.6	558.3	10.5
8500.0	749.6	9.8	9.4	97.0	917.3	557.3	9.6
9000.0	735.0	9.0	8.5	97.0	903.4	656.3	105.8
9500.0	722.6	8.2	7.8	97.0	889.9	555.3	94.7
10000.0	709.5	7.4	7.0	97.0	876.6	654.3	9.8
10500.0	696.7	6.8	6.4	97.0	852.4	553.5	10.7
11000.0	683.9	6.8	6.4	97.0	846.5	653.5	75.9
11500.0	671.3	5.6	5.1	96.5	834.9	652.1	76.2
12000.0	659.0	6.3	5.7	96.2	823.5	550.6	78.2
12500.0	646.8	5.3	4.7	95.0	811.7	549.1	11.3
13000.0	634.8	2.5	2.2	94.2	799.2	548.1	11.5
13500.0	623.0	1.3	-2.2	86.8	786.5	547.1	1.0
14000.0	611.4	1.1	-7	97.3	771.9	646.3	1.0
14500.0	599.9	1.1	-2.0	79.6	759.5	545.2	1.0

STATION ALTITUDE 3270.0 FEET MSL
19 JUNE 84 0910 MDT
ASCENSION NO. 337

MANDATORY LEVELS
171002Z337
WHITE SANDS
TABLE 18

GEOGRAPHIC COORDINATES
32°40'45" LAT DEG
106°37'03" LONG DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES	AIR DEPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TW)	SPEED KNOTS
850.0	5022.	15.7	13.5	87.	85.4	5.2
800.0	6709.	12.8	11.9	95.	91.3	7.9
750.0	9481.	9.3	9.4	97.	108.1	8.6
700.0	10367.	5.8	6.4	97.	87.7	10.5
650.0	12355.	3.5	2.3	92.	81.5	10.7
600.0	14480.	1.1	-2.0	RJ.		

STATION NUMBER 100000105
19 JUNE 1961
REF ID: A61061051

SIGNIFICANT LEVEL DATA
TABLE 19
190000105

GEOGRAPHIC COORDINATES
32°48'34" LAT 104° DEG
06°42'07" LONG DEG

WILTBARK ALTITUDE FEET	TEMPERATURE DEGREES CFNT GRADE	AIR POINT TEMPERATURE DEGREES DEG F	REL. HUM. PERCENT
881.0	7007.3	19.8	95.0
881.0	6098.7	18.0	96.0
881.0	5098.1	15.6	97.0
850.0	5097.5	16.4	97.0
762.0	4097.3	10.8	98.0
700.0	3097.3	10.5	98.0
700.0	1096.4	7.0	98.0
867.0	1196.5	5.1	99.0
634.0	1196.5	4.5	99.0
634.0	1196.6	2.2	98.0

TABLE 20

1960 MDT
"SASO" UN. 1960
TURKEY. 1960
TOKYO. 1960

6504511 COUNTRYMANAGES
37.6816 1A7 966
650.62107 LON 936

19 JUAR 94
ASPRENTHON NO. 19c
0910 MDT

MANDATORY LEVELS
171004Z105
" " "
TABLE 21

GEODETIC COORDINATES
32.48034 LAT DEG
106.42107 LON DEG

PRESSURE (GRANDENTIAL MILLIBARS)	REFL DEPHT	TEMPERATURE		REL.HUM. %	WIND DATA	
		ATO DEPHT	DEPNT CENTIGRAD.		DIRECNT DEGREES (TN)	SPEED KNOTS
1000.0	500.0	16.4	16.4	80.	6.1	2.2
900.0	620.0	17.7	17.7	96.	114.3	5.8
750.0	820.0	19.0	0.0	98.	172.8	8.8
700.0	974.0	20.7	6.7	98.	74.5	14.0
650.0	1276.0	20.8	7.4	92.		

STATION ALTITUDE IN FEET	ACCELERATION NO. IN JUNE 54	0958 MDT WINDS IN CENTS	SIGNIFICANT LEVEL DATA		TABLE 22
			MINIMUM ALTITUDE IN FEET	PERCENT DECREASING PRESSURE	
13,000	13.0	1.0	22.1	15.1	76.0
13,200	13.2	1.0	22.1	15.1	76.0
13,400	13.4	1.0	22.1	15.1	76.0
13,600	13.6	1.0	22.1	15.1	76.0
13,800	13.8	1.0	22.1	15.1	76.0
14,000	14.0	1.0	22.1	15.1	76.0
14,200	14.2	1.0	22.1	15.1	76.0
14,400	14.4	1.0	22.1	15.1	76.0
14,600	14.6	1.0	22.1	15.1	76.0
14,800	14.8	1.0	22.1	15.1	76.0
15,000	15.0	1.0	22.1	15.1	76.0
15,200	15.2	1.0	22.1	15.1	76.0
15,400	15.4	1.0	22.1	15.1	76.0
15,600	15.6	1.0	22.1	15.1	76.0
15,800	15.8	1.0	22.1	15.1	76.0
16,000	16.0	1.0	22.1	15.1	76.0
16,200	16.2	1.0	22.1	15.1	76.0
16,400	16.4	1.0	22.1	15.1	76.0
16,600	16.6	1.0	22.1	15.1	76.0
16,800	16.8	1.0	22.1	15.1	76.0
17,000	17.0	1.0	22.1	15.1	76.0
17,200	17.2	1.0	22.1	15.1	76.0
17,400	17.4	1.0	22.1	15.1	76.0
17,600	17.6	1.0	22.1	15.1	76.0
17,800	17.8	1.0	22.1	15.1	76.0
18,000	18.0	1.0	22.1	15.1	76.0
18,200	18.2	1.0	22.1	15.1	76.0
18,400	18.4	1.0	22.1	15.1	76.0
18,600	18.6	1.0	22.1	15.1	76.0
18,800	18.8	1.0	22.1	15.1	76.0
19,000	19.0	1.0	22.1	15.1	76.0
19,200	19.2	1.0	22.1	15.1	76.0
19,400	19.4	1.0	22.1	15.1	76.0
19,600	19.6	1.0	22.1	15.1	76.0
19,800	19.8	1.0	22.1	15.1	76.0
20,000	20.0	1.0	22.1	15.1	76.0
20,200	20.2	1.0	22.1	15.1	76.0
20,400	20.4	1.0	22.1	15.1	76.0
20,600	20.6	1.0	22.1	15.1	76.0
20,800	20.8	1.0	22.1	15.1	76.0
21,000	21.0	1.0	22.1	15.1	76.0
21,200	21.2	1.0	22.1	15.1	76.0
21,400	21.4	1.0	22.1	15.1	76.0
21,600	21.6	1.0	22.1	15.1	76.0
21,800	21.8	1.0	22.1	15.1	76.0
22,000	22.0	1.0	22.1	15.1	76.0
22,200	22.2	1.0	22.1	15.1	76.0
22,400	22.4	1.0	22.1	15.1	76.0
22,600	22.6	1.0	22.1	15.1	76.0
22,800	22.8	1.0	22.1	15.1	76.0
23,000	23.0	1.0	22.1	15.1	76.0
23,200	23.2	1.0	22.1	15.1	76.0
23,400	23.4	1.0	22.1	15.1	76.0
23,600	23.6	1.0	22.1	15.1	76.0
23,800	23.8	1.0	22.1	15.1	76.0
24,000	24.0	1.0	22.1	15.1	76.0
24,200	24.2	1.0	22.1	15.1	76.0
24,400	24.4	1.0	22.1	15.1	76.0
24,600	24.6	1.0	22.1	15.1	76.0
24,800	24.8	1.0	22.1	15.1	76.0
25,000	25.0	1.0	22.1	15.1	76.0
25,200	25.2	1.0	22.1	15.1	76.0
25,400	25.4	1.0	22.1	15.1	76.0
25,600	25.6	1.0	22.1	15.1	76.0
25,800	25.8	1.0	22.1	15.1	76.0
26,000	26.0	1.0	22.1	15.1	76.0
26,200	26.2	1.0	22.1	15.1	76.0
26,400	26.4	1.0	22.1	15.1	76.0
26,600	26.6	1.0	22.1	15.1	76.0
26,800	26.8	1.0	22.1	15.1	76.0
27,000	27.0	1.0	22.1	15.1	76.0
27,200	27.2	1.0	22.1	15.1	76.0
27,400	27.4	1.0	22.1	15.1	76.0
27,600	27.6	1.0	22.1	15.1	76.0
27,800	27.8	1.0	22.1	15.1	76.0
28,000	28.0	1.0	22.1	15.1	76.0
28,200	28.2	1.0	22.1	15.1	76.0
28,400	28.4	1.0	22.1	15.1	76.0
28,600	28.6	1.0	22.1	15.1	76.0
28,800	28.8	1.0	22.1	15.1	76.0
29,000	29.0	1.0	22.1	15.1	76.0
29,200	29.2	1.0	22.1	15.1	76.0
29,400	29.4	1.0	22.1	15.1	76.0
29,600	29.6	1.0	22.1	15.1	76.0
29,800	29.8	1.0	22.1	15.1	76.0
30,000	30.0	1.0	22.1	15.1	76.0
30,200	30.2	1.0	22.1	15.1	76.0
30,400	30.4	1.0	22.1	15.1	76.0
30,600	30.6	1.0	22.1	15.1	76.0
30,800	30.8	1.0	22.1	15.1	76.0
31,000	31.0	1.0	22.1	15.1	76.0
31,200	31.2	1.0	22.1	15.1	76.0
31,400	31.4	1.0	22.1	15.1	76.0
31,600	31.6	1.0	22.1	15.1	76.0
31,800	31.8	1.0	22.1	15.1	76.0
32,000	32.0	1.0	22.1	15.1	76.0
32,200	32.2	1.0	22.1	15.1	76.0
32,400	32.4	1.0	22.1	15.1	76.0
32,600	32.6	1.0	22.1	15.1	76.0
32,800	32.8	1.0	22.1	15.1	76.0
33,000	33.0	1.0	22.1	15.1	76.0
33,200	33.2	1.0	22.1	15.1	76.0
33,400	33.4	1.0	22.1	15.1	76.0
33,600	33.6	1.0	22.1	15.1	76.0
33,800	33.8	1.0	22.1	15.1	76.0
34,000	34.0	1.0	22.1	15.1	76.0
34,200	34.2	1.0	22.1	15.1	76.0
34,400	34.4	1.0	22.1	15.1	76.0
34,600	34.6	1.0	22.1	15.1	76.0
34,800	34.8	1.0	22.1	15.1	76.0
35,000	35.0	1.0	22.1	15.1	76.0
35,200	35.2	1.0	22.1	15.1	76.0
35,400	35.4	1.0	22.1	15.1	76.0
35,600	35.6	1.0	22.1	15.1	76.0
35,800	35.8	1.0	22.1	15.1	76.0
36,000	36.0	1.0	22.1	15.1	76.0
36,200	36.2	1.0	22.1	15.1	76.0
36,400	36.4	1.0	22.1	15.1	76.0
36,600	36.6	1.0	22.1	15.1	76.0
36,800	36.8	1.0	22.1	15.1	76.0
37,000	37.0	1.0	22.1	15.1	76.0
37,200	37.2	1.0	22.1	15.1	76.0
37,400	37.4	1.0	22.1	15.1	76.0
37,600	37.6	1.0	22.1	15.1	76.0
37,800	37.8	1.0	22.1	15.1	76.0
38,000	38.0	1.0	22.1	15.1	76.0
38,200	38.2	1.0	22.1	15.1	76.0
38,400	38.4	1.0	22.1	15.1	76.0
38,600	38.6	1.0	22.1	15.1	76.0
38,800	38.8	1.0	22.1	15.1	76.0
39,000	39.0	1.0	22.1	15.1	76.0
39,200	39.2	1.0	22.1	15.1	76.0
39,400	39.4	1.0	22.1	15.1	76.0
39,600	39.6	1.0	22.1	15.1	76.0
39,800	39.8	1.0	22.1	15.1	76.0
40,000	40.0	1.0	22.1	15.1	76.0
40,200	40.2	1.0	22.1	15.1	76.0
40,400	40.4	1.0	22.1	15.1	76.0
40,600	40.6	1.0	22.1	15.1	76.0
40,800	40.8	1.0	22.1	15.1	76.0
41,000	41.0	1.0	22.1	15.1	76.0
41,200	41.2	1.0	22.1	15.1	76.0
41,400	41.4	1.0	22.1	15.1	76.0
41,600	41.6	1.0	22.1	15.1	76.0
41,800	41.8	1.0	22.1	15.1	76.0
42,000	42.0	1.0	22.1	15.1	76.0
42,200	42.2	1.0	22.1	15.1	76.0
42,400	42.4	1.0	22.1	15.1	76.0
42,600	42.6	1.0	22.1	15.1	76.0
42,800	42.8	1.0	22.1	15.1	76.0
43,000	43.0	1.0	22.1	15.1	76.0
43,200	43.2	1.0	22.1	15.1	76.0
43,400	43.4	1.0	22.1	15.1	76.0
43,600	43.6	1.0	22.1	15.1	76.0
43,800	43.8	1.0	22.1	15.1	76.0
44,000	44.0	1.0	22.1	15.1	76.0
44,200	44.2	1.0	22.1	15.1	76.0
44,400	44.4	1.0	22.1	15.1	76.0
44,600	44.6	1.0	22.1	15.1	76.0
44,800	44.8	1.0	22.1	15.1	76.0
45,000	45.0	1.0	22.1	15.1	76.0
45,200	45.2	1.0	22.1	15.1	76.0
45,400	45.4	1.0	22.1	15.1	76.0
45,600	45.6	1.0	22.1	15.1	76.0
45,800	45.8	1.0	22.1	15.1	76.0
46,000	46.0	1.0	22.1	15.1	76.0
46,200	46.2	1.0	22.1	15.1	76.0
46,400	46.4	1.0	22.1	15.1	76.0
46,600	46.6	1.0	22.1	15.1	76.0
46,800	46.8	1.0	22.1	15.1	76.0
47,000	47.0	1.0	22.1	15.1	76.0
47,200	47.2	1.0	22.1	15.1	76.0
47,400	47.4	1.0	22.1	15.1	76.0
47,600	47.6	1.0	22.1	15.1	76.0
47,800	47.8	1.0	22.1	15.1	76.0
48,000	48.0	1.0	22.1	15.1	76.0
48,200	48.2	1.0	22.1	15.1	76.0
48,400	48.4	1.0	22.1	15.1	76.0
48,600	48.6	1.0	22.1	15.1	76.0
48,800	48.8	1.0	22.1	15.1	76.0
49,000	49.0	1.0	22.1	15.1	76.0
49,200	49.2	1.0	22.1	15.1	76.0

STATION ALTITUDE 3969.0 FEET "SL
15 JUNE 84
ASCENSION NO. 333

SIGNIFICANT LEVEL DATA

171003Z30

WHITE SANDS

0958 MDT

SEODETIC COORDINATES
32°40'43" LAT REG
106°37'03" LON REG

TABLE 22 Cond't

PRESSURE GEOMETRIC	ALTITUDE MILLIBARS "SL FEET"	TEMPERATURE AIR DWPNT DEGREES CENTIGRADE	REFL.HJ%
110.3	52635.9	-73.4	
102.2	56376.5	-70.6	
96.2	59277.2	-70.4	
79.2	51951.2	-56.5	
53.4	57457.5	-50.5	
50.1	68675.4	-55.1	
41.0	73025.5	-54.5	
36.2	75550.1	-55.5	

TABLE 23

SUCCESSIONS AND CULTIVATION

ELEVATION PRESSURE ALTITUDE WORLD EARTH	TEMPERATURE ATMOSPHERIC WILLIAMS DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY SM/CUBIC WT/FR	SOUND KNOTS	SIGHTS DEGREES(CTN)	CLOUDS	DIRECTION SPEED	INDEX REFRACTION	DING DATA	
									INDEX	REFRACTION
41.0	59.1	76.1	78.0	192.0	559.3	5	5	1.000015		
42.0	58.1	76.1	78.0	193.0	559.2	5	5	1.000015		
43.0	58.1	76.1	78.0	193.9	559.2	5	5	1.000015		
44.0	58.1	76.1	78.0	194.8	559.2	5	5	1.000015		
45.0	58.1	76.1	78.0	195.7	559.2	5	5	1.000015		
46.0	58.1	76.1	78.0	196.6	559.2	5	5	1.000015		
47.0	58.1	76.1	78.0	197.5	559.2	5	5	1.000015		
48.0	58.1	76.1	78.0	198.4	559.2	5	5	1.000015		
49.0	58.1	76.1	78.0	199.3	559.2	5	5	1.000015		
50.0	58.1	76.1	78.0	200.2	559.2	5	5	1.000015		
51.0	58.1	76.1	78.0	201.1	559.2	5	5	1.000015		
52.0	58.1	76.1	78.0	202.0	559.2	5	5	1.000015		
53.0	58.1	76.1	78.0	202.9	559.2	5	5	1.000015		
54.0	58.1	76.1	78.0	203.8	559.2	5	5	1.000015		
55.0	58.1	76.1	78.0	204.7	559.2	5	5	1.000015		
56.0	58.1	76.1	78.0	205.6	559.2	5	5	1.000015		
57.0	58.1	76.1	78.0	206.5	559.2	5	5	1.000015		
58.0	58.1	76.1	78.0	207.4	559.2	5	5	1.000015		
59.0	58.1	76.1	78.0	208.3	559.2	5	5	1.000015		
60.0	58.1	76.1	78.0	209.2	559.2	5	5	1.000015		
61.0	58.1	76.1	78.0	210.1	559.2	5	5	1.000015		
62.0	58.1	76.1	78.0	211.0	559.2	5	5	1.000015		
63.0	58.1	76.1	78.0	211.9	559.2	5	5	1.000015		
64.0	58.1	76.1	78.0	212.8	559.2	5	5	1.000015		
65.0	58.1	76.1	78.0	213.7	559.2	5	5	1.000015		
66.0	58.1	76.1	78.0	214.6	559.2	5	5	1.000015		
67.0	58.1	76.1	78.0	215.5	559.2	5	5	1.000015		
68.0	58.1	76.1	78.0	216.4	559.2	5	5	1.000015		
69.0	58.1	76.1	78.0	217.3	559.2	5	5	1.000015		
70.0	58.1	76.1	78.0	218.2	559.2	5	5	1.000015		
71.0	58.1	76.1	78.0	219.1	559.2	5	5	1.000015		
72.0	58.1	76.1	78.0	219.9	559.2	5	5	1.000015		
73.0	58.1	76.1	78.0	220.8	559.2	5	5	1.000015		
74.0	58.1	76.1	78.0	221.7	559.2	5	5	1.000015		
75.0	58.1	76.1	78.0	222.6	559.2	5	5	1.000015		
76.0	58.1	76.1	78.0	223.5	559.2	5	5	1.000015		
77.0	58.1	76.1	78.0	224.4	559.2	5	5	1.000015		
78.0	58.1	76.1	78.0	225.3	559.2	5	5	1.000015		
79.0	58.1	76.1	78.0	226.2	559.2	5	5	1.000015		
80.0	58.1	76.1	78.0	227.1	559.2	5	5	1.000015		
81.0	58.1	76.1	78.0	227.9	559.2	5	5	1.000015		
82.0	58.1	76.1	78.0	228.8	559.2	5	5	1.000015		
83.0	58.1	76.1	78.0	229.7	559.2	5	5	1.000015		
84.0	58.1	76.1	78.0	230.6	559.2	5	5	1.000015		
85.0	58.1	76.1	78.0	231.5	559.2	5	5	1.000015		
86.0	58.1	76.1	78.0	232.4	559.2	5	5	1.000015		
87.0	58.1	76.1	78.0	233.3	559.2	5	5	1.000015		
88.0	58.1	76.1	78.0	234.2	559.2	5	5	1.000015		
89.0	58.1	76.1	78.0	235.1	559.2	5	5	1.000015		
90.0	58.1	76.1	78.0	236.0	559.2	5	5	1.000015		
91.0	58.1	76.1	78.0	236.9	559.2	5	5	1.000015		
92.0	58.1	76.1	78.0	237.8	559.2	5	5	1.000015		
93.0	58.1	76.1	78.0	238.7	559.2	5	5	1.000015		
94.0	58.1	76.1	78.0	239.6	559.2	5	5	1.000015		
95.0	58.1	76.1	78.0	240.5	559.2	5	5	1.000015		
96.0	58.1	76.1	78.0	241.4	559.2	5	5	1.000015		
97.0	58.1	76.1	78.0	242.3	559.2	5	5	1.000015		
98.0	58.1	76.1	78.0	243.2	559.2	5	5	1.000015		
99.0	58.1	76.1	78.0	244.1	559.2	5	5	1.000015		
100.0	58.1	76.1	78.0	245.0	559.2	5	5	1.000015		
101.0	58.1	76.1	78.0	245.9	559.2	5	5	1.000015		
102.0	58.1	76.1	78.0	246.8	559.2	5	5	1.000015		
103.0	58.1	76.1	78.0	247.7	559.2	5	5	1.000015		
104.0	58.1	76.1	78.0	248.6	559.2	5	5	1.000015		
105.0	58.1	76.1	78.0	249.5	559.2	5	5	1.000015		
106.0	58.1	76.1	78.0	250.4	559.2	5	5	1.000015		
107.0	58.1	76.1	78.0	251.3	559.2	5	5	1.000015		
108.0	58.1	76.1	78.0	252.2	559.2	5	5	1.000015		
109.0	58.1	76.1	78.0	253.1	559.2	5	5	1.000015		
110.0	58.1	76.1	78.0	254.0	559.2	5	5	1.000015		
111.0	58.1	76.1	78.0	254.9	559.2	5	5	1.000015		
112.0	58.1	76.1	78.0	255.8	559.2	5	5	1.000015		
113.0	58.1	76.1	78.0	256.7	559.2	5	5	1.000015		
114.0	58.1	76.1	78.0	257.6	559.2	5	5	1.000015		
115.0	58.1	76.1	78.0	258.5	559.2	5	5	1.000015		
116.0	58.1	76.1	78.0	259.4	559.2	5	5	1.000015		
117.0	58.1	76.1	78.0	260.3	559.2	5	5	1.000015		
118.0	58.1	76.1	78.0	261.2	559.2	5	5	1.000015		
119.0	58.1	76.1	78.0	262.1	559.2	5	5	1.000015		
120.0	58.1	76.1	78.0	263.0	559.2	5	5	1.000015		
121.0	58.1	76.1	78.0	263.9	559.2	5	5	1.000015		
122.0	58.1	76.1	78.0	264.8	559.2	5	5	1.000015		
123.0	58.1	76.1	78.0	265.7	559.2	5	5	1.000015		
124.0	58.1	76.1	78.0	266.6	559.2	5	5	1.000015		
125.0	58.1	76.1	78.0	267.5	559.2	5	5	1.000015		
126.0	58.1	76.1	78.0	268.4	559.2	5	5	1.000015		
127.0	58.1	76.1	78.0	269.3	559.2	5	5	1.000015		
128.0	58.1	76.1	78.0	270.2	559.2	5	5	1.000015		
129.0	58.1	76.1	78.0	271.1	559.2	5	5	1.000015		
130.0	58.1	76.1	78.0	272.0	559.2	5	5	1.000015		
131.0	58.1	76.1	78.0	272.9	559.2	5	5	1.000015		
132.0	58.1	76.1	78.0	273.8	559.2	5	5	1.000015		
133.0	58.1	76.1	78.0	274.7	559.2	5	5	1.000015		
134.0	58.1	76.1	78.0	275.6	559.2	5	5	1.000015		
135.0	58.1	76.1	78.0	276.5	559.2	5	5	1.000015		
136.0	58.1	76.1	78.0	277.4	559.2	5	5	1.000015		
137.0	58.1	76.1	78.0	278.3	559.2	5	5	1.000015		
138.0	58.1	76.1	78.0	279.2	559.2	5	5	1.000015		
139.0	58.1	76.1	78.0	280.1	559.2	5	5	1.000015		
140.0	58.1	76.1	78.0	281.0	559.2	5	5	1.000015		
141.0	58.1	76.1	78.0	281.9	559.2	5	5	1.000015		
142.0	58.1	76.1	78.0	282.8	559.2	5	5	1.000015		
143.0	58.1	76.1	78.0	283.7	559.2	5	5	1.000015		
144.0	58.1	76.1	78.0	284.6	559.2	5	5	1.000015		
145.0	58.1	76.1	78.0	285.5	559.2	5	5	1.000015		
146.0	58.1	76.1	78.0	286.4	559.2	5	5	1.000015		
147.0	58.1	76.1	78.0	287.3	559.2	5	5	1.000015		
148.0	58.1	76.1	78.0	288.2	559.2	5	5	1.000015		
149.0	58.1	76.1	78.0	289.1	559.2	5	5	1.000015		
150.0	58.1	76.1	78.0	290.0	559.2	5	5	1.000015		
151.0	58.1	76.1	78.0	290.9	559.2	5	5	1.000015		
152.0	58.1	76.1	78.0	291.8	559.2	5	5	1.000015		
153.0	58.1	76.1	78.0	292.7	559.2	5	5	1.000015		
154.0	58.1	76.1	78.0	293.6	559.2	5	5	1.000015		
155.0	58.1	76.1	78.0	294.5	559.2	5	5	1.000015		
156.0	58.1	76.1	78.0	295.4	559.2	5	5	1.000015		
157.0	58.1	76.1	78.0	296.3	559.2	5	5	1.000015		
158.0	58.1	76.1	78.0	297.2	559.2	5	5	1.000015		
159.0	58.1	76.1	78.0	298.1	559.2	5	5	1.000015		
160.0	58.1	76.1	78.0	299.0	559.2	5	5	1.000015		
161.0	58.1	76.1	78.0	299.9	559.2	5	5	1.000015		
162.0	58.1	76.1	78.0	300.8	559.2	5	5	1.000015		
163.0	58.1	76.1	78.0	301.7	559.2	5	5	1.000015		
164.0	58.1	76.1	78.0	302.6	559.2	5	5	1.000015		
165.0										

STATION ALTITUDE 3350.0 FEET MSL
15 JUNE 06 0958 MDT
ASCENSION NO. 335

UPPER AIR DATA
171002Z 38
WHITE SANDS
0958

GEODETIC COORDINATES
32°44'43" LAT DEG
106°37'03" LON DEG

TABLE 23 Cont'd

ALTIMETER PRESSURE IN. INCHES	TEMPERATURE AIR DEGREES CENTIGRADE	RELUM. PERCENT	DENSITY SM/MICRIC WATER KNOTS	SPEED OF WIND DATA DEGREES (TM) DEGREES (UT)	DIRECTION OF REFRACTION	SPEED (KNOTS)	INDEX OF REFRACTION
22500.0	-623.3	-16.0	-16.5	16.6	570.2	525.5	216.1
24500.0	-614.9	-15.3	-15.4	16.0	560.5	525.6	217.4
26500.0	-606.6	-15.6	-16.3	18.5	551.6	524.3	218.3
28500.0	-598.5	-17.0	-16.5	21.1	562.1	622.8	215.0
30500.0	-590.4	-19.0	-15.3	21.3	534.6	521.2	215.5
32500.0	-582.3	-20.5	-16.1	22.7	526.3	513.5	205.5
34500.0	-574.7	-21.9	-16.9	23.5	518.8	517.9	203.7
36500.0	-567.1	-22.3	-17.3	23.6	510.5	515.5	203.4
38500.0	-559.5	-23.6	-19.2	22.2	501.8	615.4	205.5
40500.0	-552.1	-26.5	-16.5	20.9	497.2	516.6	208.7
42500.0	-544.5	-25.4	-17.3	19.5	434.7	515.3	212.9
44500.0	-537.7	-26.2	-16.3	18.1	476.4	512.2	212.5
46500.0	-530.7	-27.0	-15.2	15.7	457.9	511.3	214.3
48500.0	-523.7	-28.4	-16.5	15.7	459.2	512.0	215.2
50500.0	-515.9	-29.1	-17.4	15.3	452.4	528.6	218.4
51000.0	-510.2	-27.2	-14.3	15.3	444.3	507.2	220.1
51500.0	-503.7	-27.4	-12.3	15.2	437.5	515.8	221.1
52000.0	-297.3	-22.4	-12.2	15.2	430.1	504.5	222.0
52500.0	-290.9	-23.4	-15.1	15.0	422.5	523.3	222.8
53000.0	-284.5	-24.4	-15.1	15.3	415.2	522.3	221.7
53500.0	-278.5	-35.3	-15.2	15.3	407.2	520.8	222.5
54000.0	-272.5	-35.5	-15.2	15.3	400.3	599.6	219.7
54500.0	-266.6	-37.3	-15.4	15.3	397.7	598.4	219.4
55000.0	-260.5	-35.4	-15.5	15.3	367.2	597.2	221.5
55500.0	-254.5	-36.4	-15.1	15.3	351.2	595.5	221.4
56000.0	-249.5	-40.8	-15.5	15.3	377.8	594.1	220.8
56500.0	-243.9	-41.7	-15.2	15.3	357.1	592.7	220.5
57000.0	-236.4	-42.3	-15.2	15.3	360.5	571.2	222.7
57500.0	-233.0	-44.3	-15.1	15.3	354.2	589.8	223.4
58000.0	-227.3	-45.1	-15.1	15.3	347.2	588.3	225.7
58500.0	-222.6	-42.6	-16.2	16.2	341.7	586.7	228.7
59000.0	-217.6	-47.3	-16.7	17.7	335.7	585.4	228.6
59500.0	-212.7	-43.2	-16.2	16.2	329.3	534.3	222.1
60000.0	-207.9	-49.6	-17.9	16.2	314.2	582.5	229.8
60500.0	-202.6	-49.7	-16.6	16.2	319.2	581.0	230.4
61000.0	-198.6	-51.3	-16.6	17.6	312.5	579.5	231.5
61500.0	-193.9	-53.4	-16.6	17.6	306.2	578.0	232.5
62000.0	-187.4	-56.4	-16.6	17.6	301.3	575.5	232.9
62500.0	-185.0	-55.3	-16.6	17.6	295.2	575.0	232.7
63000.0	-183.6	-55.4	-16.6	17.6	290.3	573.5	234.1

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION LATITUDE 33° 30' N
19 JUNE 84 0958 MDT
ASCENSION NC. 335

UPPER AIR DATA
1710Z
WHITE SANDS
32° 40' N 105° 45' W

GEODETIC COORDINATES
32° 40' N 105° 45' W
LAT LONG
NAD 1973 SRS

TABLE 23 Cont'd

GEOMETRIC PRESSURE	TEMPERATURE	REL.HUM.	SPEED OF	WIND DATA	INDEX
ATMOSFERIC	AT 2000 FT	REL.HUM.	WIND	DATA	OF
ALTITUDE	DEPOT	DEGR/EVT	KNOTS		REFRACTION
MSL FLEET	WILLIAMS DEGREES CENTIGRADE	%	KNOTS		
4400.0	175.4	-57.1	254.3	572.7	235.6
4450.0	172.6	-47.8	278.5	571.7	235.4
4500.0	168.1	-58.5	272.7	573.8	235.3
4550.0	164.1	-69.2	257.1	559.9	237.3
4600.0	152.2	-63.4	256.3	553.5	239.1
4650.0	156.3	-61.2	254.9	557.1	245.3
4700.0	152.5	-61.9	251.5	555.3	243.8
4750.0	143.8	-62.4	246.1	555.6	244.8
4800.0	145.2	-62.7	240.4	555.1	243.2
4850.0	141.7	-62.3	238.1	556.4	239.9
4900.0	138.2	-63.8	235.3	553.7	231.7
4950.0	124.8	-64.5	225.1	552.3	220.8
5000.0	121.5	-65.4	220.4	561.5	211.2
5050.0	128.2	-65.4	215.2	560.4	221.7
5100.0	125.1	-67.1	211.5	559.2	226.2
5150.0	122.0	-63.0	207.2	557.9	228.8
5200.0	119.0	-63.9	222.3	555.7	210.6
5250.0	115.0	-69.3	198.4	555.3	212.1
5300.0	113.1	-70.0	197.3	555.3	227.7
5350.0	110.2	-70.4	189.4	554.7	201.5
5400.0	107.4	-70.4	156.5	556.7	192.3
5450.0	104.7	-70.4	190.3	554.7	230.2
5500.0	102.1	-70.4	175.6	554.7	220.7
5550.0	99.5	-70.4	171.0	554.7	221.1
5600.0	97.0	-70.4	166.7	554.7	199.2
5650.0	94.5	-70.4	152.5	554.7	121.1
5700.0	92.2	-70.4	158.4	554.7	120.5
5750.0	89.9	-70.4	154.4	554.7	185.4
5800.0	87.6	-70.4	150.3	554.7	178.3
5850.0	85.4	-70.4	146.7	554.7	158.1
5900.0	83.3	-70.4	162.3	555.2	157.4
5950.0	91.2	-69.4	138.7	555.3	136.5
6000.0	79.2	-68.4	134.7	557.4	115.5
6050.0	77.2	-67.6	130.2	558.5	129.5
6100.0	75.3	-66.9	127.1	559.6	38.8
6150.0	73.4	-65.0	127.5	557.7	79.8
6200.0	71.6	-65.2	120.3	551.3	72.0
6250.0	69.9	-64.3	114.5	552.8	78.7
6300.0	68.1	-64.1	117.5	555.1	93.7
6350.0	65.5	-63.7	113.4	563.8	21.2

STATION ALTITUDE 33,000 FEET "S1
19 JUNE 84 0958 MDT

UPPER AIR DATA

171023Z

WHITE SANDS

TABLE 23 Cont'd

GEODETIC COORDINATES
32°47.063 LAT DEG
106.37733 LONG DEG

GEOMETRIC ALTITUDE MSL FLEET	PRESSURE WILLIAMS	TEMPERATURE DEGREES CELSIUS	REFRACTION DEGREE(S) CUBIC	DENSITY KG/CU METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(174)	SPEED (KNOTS)	INDEX OF REFRACTION
63500.0	66.3	-63.4		107.7	556.2	98.6	18.4	1.000004
64000.0	53.3	-63.3		134.3	556.7	95.7	16.0	1.000003
64500.0	61.8	-62.7		107.2	565.2	95.2	16.6	1.000003
65000.0	62.3	-62.3		22.5	555.7	93.1	15.6	1.000002
65500.0	58.5	-61.9		97.3	566.2	91.1	15.1	1.000002
66000.0	57.4	-61.5		24.5	555.7	91.1	15.7	1.000001
66500.0	55.3	-61.2		22.3	557.2	93.7	16.4	1.000002
67000.0	56.6	-60.4		39.7	557.7	95.4	16.2	1.000002
67500.0	53.3	-60.4		37.3	553.2	100.2	17.9	1.000019
68000.0	52.0	-59.8		84.3	572.4	103.5	17.5	1.000019
68500.0	50.2	-57.2		92.3	572.5	107.6	20.3	1.000018
69000.0	49.3	-56.3		79.5	574.0	113.7	21.6	1.000013
69500.0	45.4	-55.0		77.7	574.3	118.2	21.1	1.000017
70000.0	47.3	-55.7		75.3	574.5	117.3	17.8	1.000017
70500.0	45.2	-55.3		73.3	574.3	117.5	14.4	1.000015
71000.0	45.1	-55.3		72.1	575.0	110.2	11.8	1.000015
71500.0	44.1	-55.1		70.3	575.3	35.2	12.4	1.000016
72000.0	43.0	-54.3		59.7	575.3	57.5	14.9	1.000015
72500.0	42.0	-54.7		67.3	575.3	52.2	15.7	1.000015
73000.0	41.0	-54.5		55.4	576.1	53.3	17.5	1.000015
73500.0	40.1	-54.7		57.3	575.8	54.6	18.3	1.000014
74000.0	39.1	-54.9		52.5	575.5	51.1	1.000014	
74500.0	38.2	-55.1		50.7	575.2	50.7	1.000014	
75000.0	37.2	-55.3		58.4	576.7	113.3	1.000013	
75500.0	35.5	-55.3						

STATION ALTITUDE 2955.0 FEET MSL
 19 JUNE 84 0958 MDT
 ASCENSION NO. 356

MANDATORY LEVELS
 17162013P
 WHITE SANDS

GEODETIC COORDINATES
 32°42'03" LA
 136°47'33" LO 06°

TABLE 24

PRESSURE, INCHES	DEPTH, FEET	TEMPERATURE, AIR, DEGREES CELSIUS	TEMPERATURE, DRY BULB POINT, DEGREES CELSIUS	RELATIVE HUMIDITY, PERCENT	WIND DATA	
					DIRECTION, DEGREES (TN)	SPEED, KNOTS
85.0	5241.	17.3	15.5	89.	62.2	3.3
857.0	6710.	15.3	12.8	97.	51.0	8.1
751.0	3452.	10.6	11.0	36.	32.5	5.6
701.0	1327.	9.0	8.4	95.	64.7	3.3
651.0	1277.	6.7	4.0	75.	105.2	9.3
601.0	1450.	1.5	-1.2	82.	157.5	5.3
551.0	1678.	-1.0	-8.0	57.	242.3	5.0
501.0	1926.	-5.0	-14.7	50.	244.1	11.1
451.0	2135.	-12.7	-17.7	55.	132.4	15.3
401.0	2486.	-17.4	-34.4	21.	217.2	22.8
351.0	2809.	-20.7	-40.0	20.	202.4	10.7
301.0	1726.	-32.0	-49.8	15.	221.7	62.5
251.0	2587.	-40.5	22.9	56.7		
201.0	2074.	-51.5	231.0	51.4		
171.0	43552.	-57.3	235.8	47.5		
151.0	46712.	-62.1	265.3	46.3		
125.0	5071.	-67.2	204.8	15.2		
101.0	5473.	-70.4	201.1			
81.0	59087.	-68.8	126.6	3.2		
71.0	11727.	-66.5	78.8	15.1		
61.0	64845.	-62.2	62.9	15.5		
51.0	69575.	-55.1	110.3	20.5		
41.0	73243.	-54.7	53.4	18.3		

* AT LEAST ONE ASSIMILATED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 5971 FEET 75
19 JUNE 54 0958 MDT
ASCENSION NC. 132

SIGNIFICANT LEVEL DATA

17100600105

STATION COORDINATES
32°48'03" LAT DEG
156°42'07" LONG DEG

TABLE 25

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT
981.9	3927.3	21.6	59.0
975.4	4237.3	20.3	55.0
950.0	5019.6	17.3	79.3
913.5	5254.0	14.4	87.0
751.1	9211.5	5.8	37.7
710.3	9993.3	8.6	71.7
700.0	10326.1	8.6	73.0
575.9	11367.5	5.7	92.7
539.7	12872.1	3.9	75.0

STATION ALTITUDE 3967.30 FEET MSL
 19 JUNE 84 0958 MDT
 ASCENSION NO. 106

UPPER AIR DATA
 1710 CDT 6
 S W R

GEODETIC COORDINATES
 32° 30' 35" LAT DEG
 106° 42' 37" LONG DEG

TABLE

26
 SLOPE PRESSURE TEMPERATURE REL.HUM. DENSITY SPEED OF WIND DATA
 ALTITUDE AIR DEPOINT GM/CUBIC SOUND
 MSL FEET MILLIBARS DEGREES CENTIGRADE PERCENT METER WAVE
 DEGREES CELSIUS

997.3	981.9	21.4	15.5	59.3	1035.1	671.2	0.7	0.0
4000.0	3911.8	71.4	15.5	49.3	1035.1	571.1	32.7	1.0
4500.0	3566.4	13.9	13.9	71.3	1024.2	559.1	32.7	1.0
5000.0	851.2	17.1	12.4	78.5	1014.5	556.0	92.3	2.1
5500.0	326.1	16.0	13.0	82.0	1000.5	564.7	32.0	3.2
6000.0	321.3	15.0	12.5	85.5	986.4	553.5	92.7	6.2
6500.0	505.7	14.0	12.0	87.8	972.4	552.3	92.2	5.3
7000.0	792.2	13.0	11.3	89.5	958.2	651.1	95.3	5.0
7500.0	777.9	12.1	10.7	91.2	944.3	550.0	100.5	5.7
8000.0	763.9	11.1	10.0	92.7	930.5	658.8	97.8	7.6
8500.0	750.2	10.2	9.3	94.5	917.0	557.7	87.1	7.0
9000.0	736.7	9.2	8.6	96.3	903.7	555.5	79.5	10.6
9500.0	723.4	8.7	8.0	97.5	889.6	655.3	75.7	12.1
10000.0	712.3	8.0	7.7	71.2	874.5	555.3	74.7	13.4
10500.0	697.3	8.4	4.2	75.1	859.0	555.2	73.7	14.7
11000.0	684.6	7.4	5.1	95.1	846.0	554.1	83.2	1.0
11500.0	672.1	5.4	5.3	92.4	833.3	553.0	1.0	1.0
12000.0	659.7	5.5	4.6	93.7	820.8	651.9	1.0	1.0
12500.0	647.6	6.0	3.9	95.0	808.5	550.8	1.0	1.0

STATION ALTITUDE 3997 FEET ASL
19 JUNE 96 0958 MDT
ASCENSIION NO. 106

MANDATORY LEVELS
1710060105
R

GEODETIC COORDINATES
52.48056 LAT DEG
136.42307 LON DEG

PRESSURE GEOPOTENTIAL AIR TEMPERATURE PEL. HUM.
MILLIBARS FEET DEGREES DEGREES CFNTIGRADE

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	AIR DEGREES DEGREES	AIR DEWPONT DEGREES	PEL. HUM. PERCENT	WIND DATA DIRECTION DEGREES(FW) SPEED
950.0	5075.	17.0	17.3	79.	92.0 2.2
952.3	5727.	13.5	11.2	89.	94.5 5.5
750.0	8526.	10.1	9.2	95.	86.9 2.0
677.2	10365.	8.6	6.0	73.	73.9 16.5
659.0	12383.	6.3	4.0	95.	

TABLE 27